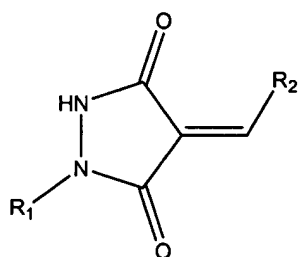


AMENDMENTS TO THE CLAIMS

1. ~~(Currently amended). The use of pyrazolidinedione derivatives of the general formula~~ A method for preventing or treating a disease or a condition associated with platelet aggregation, said method comprising administering to a mammal in need thereof at least one compound selected from the group consisting of:

a pyrazolidinedione derivative of formula (I),



(I)

wherein

R₁ is hydrogen, optionally substituted alkyl, cycloalkyl, aryl, arylalkyl, heteroaryl, heteroarylalkyl or alkanoyl; and

R₂ is aryl or heteroaryl[[:]],

tautomers thereof[[: and]],

geometric isomers thereof [[and]] or tautomers of these geometric isomers[[:]],

and

a mixture thereof; including mixtures of individual compounds of formula (I), or tautomers thereof, and their geometric isomers, or tautomers thereof; or

a pharmaceutically acceptable acid addition salts of compounds which are basic salt of said compound which is basic; or

~~a pharmaceutically acceptable salts of compounds containing acidic groups with bases~~
salt of said compound containing an acidic group with a base; or

~~a pharmaceutically acceptable esters of compounds~~ ester of said compound containing
a hydroxy or carboxy groups group; or

~~prodrugs of compounds~~ a prodrug of said compound in which a prodrug forming group
is present; ~~as well as hydrates or solvates~~ or a hydrate or solvate thereof;

~~as platelet adenosine diphosphate receptor antagonists for the prevention
and/or treatment of peripheral vascular, of visceral, hepatic and renal vascular, of
cardiovascular and of cerebrovascular diseases or conditions associated with platelet
aggregation and, respectively, for the manufacture of corresponding medicaments.~~

2. (Currently amended) The ~~[[use]]~~ method according to claim 1, wherein R₁
is other than alkanoyl.

3. (Currently amended) The ~~[[use]]~~ method according to claim 1, ~~[[or 2]]~~
wherein the disease or condition is thrombosis.

4. (Currently amended) The ~~[[use]]~~ method according to claim 1, ~~[[or 3]]~~
wherein R₁ is hydrogen, alkyl, aryl, heteroaryl or alkanoyl.

5. (Currently amended) The ~~[[use]]~~ method according to claim 4, wherein R₁
is hydrogen, alkyl, phenyl, bromophenyl, chlorophenyl, fluorophenyl, methylphenyl,
methoxyphenyl, cyanophenyl, alkoxy carbonylphenyl, pyridinyl or alkanoyl.

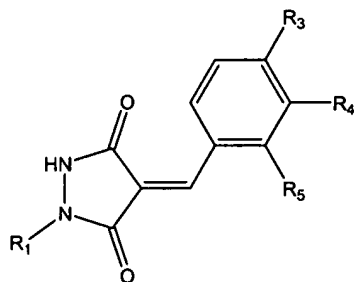
6. (Currently amended) The ~~[[use]]~~ method according to claim 5, wherein R₁
is hydrogen, methyl, phenyl, 2-pyridinyl, 4-pyridinyl, 2-methylphenyl, 4-methylphenyl, 4-
methoxyphenyl, 2-chlorophenyl, 4-fluorophenyl, 4-bromophenyl, 4-cyanophenyl, 4-
ethoxycarbonylphenyl or acetyl.

7. (Currently amended) The ~~[[use]] method~~ according to ~~any one of claims 1 to 6~~ claim 1, wherein R₂ is naphthalenyl, thienyl or pyridyl.

8. (Currently amended) The ~~[[use]] method~~ according to claim 7, wherein R₂ is naphthalen-2-yl, pyridin-3-yl or thiophen-3-yl.

9. (Currently amended) The ~~[[use]] method~~ according to ~~any one of claims 1 to 3 of compounds of the general~~ claim 1, wherein said compound is at least one selected from the group consisting of:

a pyrazolidinedione derivative of formula (III),



(III)

~~including their geometric isomers thereof, [[and]] tautomers thereof and mixtures thereof; as well as their salts, esters and prodrugs mentioned in claim 1~~
or a salt, ester or prodrug of said compound,

wherein

R₁ is as defined in ~~any one of claims 1, 2 and 4 to 6;~~

R₃ is hydrogen, alkyl, alkenyl, alkynyl, alkoxy, hydroxyalkoxy, alkoxyalkoxy, alkenyloxy, cycloalkoxy, cycloalkylalkoxy or alkylsulfonyloxy;

R₄ is hydrogen, halogen, hydroxy, alkyl or alkoxy; and

R₅ is hydrogen, halogen, hydroxy, alkyl, alkoxy, alkoxyalkoxy, hydroxyalkoxy, dihydroxyalkoxy, alkanoyloxyalkoxy, carboxyalkoxy,

carboxy-hydroxyalkoxy, carboxy-dihydroxyalkoxy, alkoxycarbonylalkoxy, alkoxycarbonyl-hydroxyalkoxy, alkoxycarbonyl-dihydroxyalkoxy, carbamoylalkoxy, *N*-alkylcarbamoylalkoxy, *N,N*-dialkylaminolalkoxy, morpholin-4-ylalkoxy, piperidin-1-ylalkoxy, morpholin-4-ylcarbonylalkoxy, 2,2-dialkyl[1,3]dioxolan-4-ylalkoxy or 2,2-dialkyl-4-carboxy[1,3]dioxolan-5-ylalkoxy; or

R₄ and R₅, together with the phenyl ring to which they are attached, form a fused, optionally substituted carbocyclic or heterocyclic ring system.

10. (Currently amended) The method according to claim 9,

wherein

R₁ is other than alkanoyl;

R₃ is hydrogen, alkyl, alkenyl, alkynyl, alkoxy, hydroxyalkoxy, alkoxyalkoxy, alkenyloxy, cycloalkoxy or cycloalkylalkoxy; and

R₄ and R₅, each independently of the other, are hydrogen, halogen, hydroxy, alkyl or alkoxy; or

R₄ and R₅, together with the phenyl ring to which they are attached, form a fused, optionally substituted carbocyclic or heterocyclic ring system.

11. (Currently amended) The method according to claim 9, or 10

wherein

R₃ is alkyl, alkenyl, alkynyl, alkoxy, cycloalkoxy, cycloalkylalkoxy, hydroxyalkoxy or alkoxyalkoxy; and

R₄ and R₅ both are hydrogen, or R₄ is halogen, alkyl or alkoxy and R₅ is hydrogen, or R₄ and R₅ each independently are alkyl or alkoxy.

12. (Currently amended) The method according to claim 11

wherein

R₃ is methyl, ethyl, propyl, *iso*-propyl, butyl, *iso*-butyl, *tert*-butyl, pentyl, hexyl, but-1-enyl, pent-1-enyl, but-1-ynyl, pent-1-ynyl, methoxy, ethoxy, propoxy, butoxy, *iso*-butoxy, 3-methyl-butoxy, pentyloxy, cyclopentyloxy, hexyloxy, cyclopropylmethoxy, cyclobutylmethoxy, 2-hydroxy-ethoxy, or 2-methoxy-ethoxy, and

R₄ and R₅ both are hydrogen or R₄ is chloro, bromo, methyl or methoxy and R₅ is hydrogen, or R₄ and R₅ each independently are methyl or methoxy.

13. (Currently amended) The method according to claim 9, or 10]] wherein

R₃ is hydrogen or alkoxy_i and

R₄ and R₅ together with the phenyl ring to which they are attached, form an optionally substituted naphthalene, tetrahydronaphthalene, indane, 1*H*-indene, isoquinoline, dihydro-benzo[1,4]dioxine or benzo[1,3]dioxole moiety.

14. (Currently amended) The method according to claim 13,

wherein

R₃ is propoxy_i and

R₄ and R₅ together with the phenyl ring to which they are attached, form a naphthalene-1-yl, indan-4-yl, isoquinolin-5-yl, isoquinolin-8-yl, 1,2,3,4-tetrahydroisoquinolin-8-yl, 2-alkoxycarbonyl-1,2,3,4-tetrahydroisoquinolin-8-yl or 5,6,7,8-tetrahydronaphthalen-1-yl moiety.

15. (Currently amended) The method according to claim 9, or 10 wherein

R₃, R₄ and R₅ each are hydrogen; or

R₃ and R₅ each are hydrogen and R₄ is methoxy; or R₃ and R₄ each are hydrogen and R₅ is methoxy; or

R₄ and R₅ each are hydrogen and R₃ is *tert*-butyl, ethoxy, propoxy or butoxy; or

R₃ is hydrogen, R₄ is methoxy, and R₅ is hydroxy; or

R₄ is hydrogen, R₃ is methoxy or propoxy and R₅ is methoxy or propoxy; or

R₅ is hydrogen, R₃ is methoxy, ethoxy, propoxy, butyloxy, *iso*-butyloxy, pentyloxy, hexyloxy, 3-methylbutoxy, 2-hydroxyethoxy, 2-methoxyethoxy, cyclopropylmethoxy or cyclobutylmethoxy and R₄ is methyl, methoxy, chloro or bromo.

16. (Currently amended) The method according to claim 9, or 10 wherein

R₃ is methoxy, propoxy, cyclopentyloxy, pent-1-ynyl or ethanesulfonyloxy;

R₄ is methyl;

R₅ is hydroxy, methyl, pentyl, methoxy, propoxy, 2-methoxyethoxy, 2-hydroxyethoxy, 3-hydroxypropoxy, 4-hydroxybutoxy, 2,3-dihydroxypropoxy, 4-acetoxybutoxy, carboxymethoxy, 3-carboxypropoxy, 4-carboxybutoxy, 3-carboxy-2-hydroxypropoxy, 3-carboxy-2,3-dihydroxypropoxy, ethoxycarbonylmethoxy, 3-ethoxycarbonylpropoxy, 4-ethoxycarbonylbutoxy, 3-ethoxycarbonyl-2-hydroxypropoxy, 3-ethoxycarbonyl-2,3-dihydroxypropoxy, carbamoylmethoxy 3-*N*-ethylcarbamoylpropoxy, 4-*N*-ethylcarbamoylbutoxy, 2-*N,N*-dimethylaminoethoxy, 3-*N,N*-dimethylaminopropoxy, 2-(morpholin-4-yl)-ethoxy, 2-(piperidin-1-yl)-ethoxy, 3-(morpholin-4-yl)-carbonylpropoxy, 4-(morpholin-4-yl)-carbonylbutoxy, 2,2-dimethyl[1,3]dioxolan-4-ylmethoxy or 2,2-dimethyl-4-carboxy[1,3]dioxolan-5-ylmethoxy; or

R₄ and R₅, together with the phenyl ring to which they are attached, form a naphthalen-1-yl, 5,6,7,8-tetrahydronaphthalen-1-yl, indan-4-yl, 1,2,3,4-tetraisoquinolin-8-yl or 2-*tert*-butoxycarbonyl-1,2,3,4-tetraisoquinolin-8-yl moiety.

17. (Currently amended) The method according to claim 1, wherein the compound is selected from the group consisting of:

- 4-(2,3-dimethyl-4-propoxy-benzylidene)-1-phenyl-pyrazolidine-3,5-dione;
- 4-(4-methoxy-3-methyl-benzylidene)-1-phenyl-pyrazolidine-3,5-dione;
- 4-(4-ethoxy-benzylidene)-1-phenyl-pyrazolidine-3,5-dione;
- 4-(4-ethoxy-3-methoxy-benzylidene)-1-phenyl-pyrazolidine-3,5-dione;
- 4-(2,4-dimethoxy-benzylidene)-1-phenyl-pyrazolidine-3,5-dione;
- 4-naphthalen-2-ylmethylene-1-phenyl-pyrazolidine-3,5-dione;
- 4-(4-*tert*-butyl-benzylidene)-1-phenyl-pyrazolidine-3,5-dione;
- 4-(2,3-dimethyl-4-methoxybenzylidene)-1-phenyl-pyrazolidine-3,5-dione;
- 4-(2,4-dimethoxy-3-methyl-benzylidene)-1-phenyl-pyrazolidine-3,5-dione;

4-(3-bromo-4-methoxy-benzylidene)-1-phenyl-pyrazolidine-3,5-dione;
1-phenyl-4-(4-propoxy-benzylidene)-pyrazolidine-3,5-dione;
4-(4-butoxy-benzylidene)-1-phenyl-pyrazolidine-3,5-dione;
4-(4-ethoxy-3-methyl-benzylidene)-1-phenyl-pyrazolidine-3,5-dione;
4-(3-methyl-4-propoxy-benzylidene)-1-phenyl-pyrazolidine-3,5-dione;
4-(4-butoxy-3-methyl-benzylidene)-1-phenyl-pyrazolidine-3,5-dione;
4-(4-hexyloxy-3-methyl-benzylidene)-1-phenyl-pyrazolidine-3,5-dione;
4-(3-methyl-4-pentyloxy-benzylidene)-1-phenyl-pyrazolidine-3,5-dione;
4-(4-cyclobutylmethoxy-3-methyl-benzylidene)-1-phenyl-pyrazolidine-3,5-
dione;
4-[3-methyl-4-(3-methyl-butoxy)-benzylidene]-1-phenyl-pyrazolidine-3,5-
dione;
4-(4-isobutoxy-3-methyl-benzylidene)-1-phenyl-pyrazolidine-3,5-dione;
4-[4-(2-methoxy-ethoxy)-3-methyl-benzylidene]-1-phenyl-pyrazolidine-3,5-
dione;
4-(3-chloro-4-propoxy-benzylidene)-1-phenyl-pyrazolidine-3,5-dione;
4-[4-(2-hydroxy-ethoxy)-3-methyl-benzylidene]-1-phenyl-pyrazolidine-3,5-
dione;
4-(4-cyclopropylmethoxy-3-methyl-benzylidene)-1-phenyl-pyrazolidine-3,5-
dione;
4-(4-cyclopentyloxy-2,3-dimethyl-benzylidene)-1-phenyl-pyrazolidine-3,5-
dione;
1-phenyl-4-(4-propoxy-5,6,7,8-tetrahydro-naphthalen-1-ylmethylene)-
pyrazolidine-3,5-dione;
4-(2,3-dimethyl-4-pent-1-ynyl-benzylidene)-1-phenyl-pyrazolidine-3,5-
dione;
4-(2,3-dimethyl-4-pentyl-benzylidene)-1-phenyl-pyrazolidine-3,5-dione;
1-phenyl-4-(4-propoxy-naphthalen-1-ylmethylene)-pyrazolidine-3,5-dione;

1-phenyl-4-[1-(7-propoxy-indan-4-yl)-methylidene]-pyrazolidine-3,5-dione;
1-phenyl-4-[1-(5-propoxy-isoquinolin-8-yl)-methylidene]-pyrazolidine-3,5-dione;

1-phenyl-4-[1-(8-propoxy-isoquinolin-5-yl)-methylidene]-pyrazolidine-3,5-dione;

4-[1-(2-*tert*-butoxycarbonyl-5-propoxy-1,2,3,4-tetrahydro-isoquinolin-8-yl)-methylidene]-1-phenyl-pyrazolidine-3,5-dione;

4-(2,3-dimethyl-4-ethanesulfonyloxy-benzylidene)-1-phenyl-pyrazolidine-3,5-dione;

4-[1-(2,4-dipropoxy-phenyl)-methylidene]-1-phenyl-pyrazolidine-3,5-dione;
4-[1-(2,6-dipropoxy-pyridin-3-yl)-methylidene]-1-phenyl-pyrazolidine-3,5-dione;

4-[1-(2-hydroxy-3-methyl-4-propoxy-phenyl)-methylidene]-1-phenyl-pyrazolidine-3,5-dione;

4-[1-(2-methoxy-3-methyl-4-propoxy-phenyl)-methylidene]-1-phenyl-pyrazolidine-3,5-dione;

4-[1-(3-methyl-2,4-dipropoxy-phenyl)-methylidene]-1-phenyl-pyrazolidine-3,5-dione;

4-[1-[2-(2-methoxy-ethoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;

4-[1-[2-(2-hydroxy-ethoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;

4-[1-[2-(3-hydroxy-propoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;

4-[1-[2-(4-acetoxy-butoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;

4-[1-[2-(4-hydroxy-butoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;

4-[1-[2-(ethoxycarbonyl-methoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;

4-[1-[2-(carboxy-methoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;

4-[1-[2-(2-amino-2-oxo-ethyloxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;

4-[1-[2-(3-ethoxycarbonyl-propoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;

4-[1-[2-(3-carboxy-propoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;

4-[1-[2-(4-ethylamino-4-oxo-butoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;

4-[1-[3-methyl-2-(4-morpholin-4-yl-4-oxo-butoxy)-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;

4-[1-[2-(4-ethoxycarbonyl-butoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;

4-[1-[2-(4-carboxy-butyloxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;

4-[1-[2-(5-ethylamino-5-oxo-pentyloxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;

4-[1-[3-methyl-2-(5-morpholin-4-yl-5-oxo-pentyloxy)-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;

4-[1-[2-(2-dimethylamino-ethoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione and its hydrochloride salt;

4-[1-[3-methyl-2-(2-morpholin-4-yl-ethoxy)-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione and its hydrochloride salt;

4-[1-[3-methyl-2-(2-piperidin-1-yl-ethoxy)-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione and its hydrochloride salt;

4-[1-[2-(3-dimethylamino-propoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione and its hydrochloride salt;

4-[1-[2-(2,2-dimethyl-[1,3]dioxolan-4-ylmethoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;

4-[1-[2-((4*R*)-2,2-dimethyl-[1,3]dioxolan-4-ylmethoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;

4-[1-[2-((4*S*)-2,2-dimethyl-[1,3]dioxolan-4-ylmethoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;

4-[1-[2-((2*R*)-3-ethoxycarbonyl-2-hydroxy-propoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;

4-[1-[2-((2*R*)-3-carboxy-2-hydroxy-propoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;

4-[1-[2-((2*S*)-3-carboxy-2-hydroxy-propoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;

4-[1-[2-((4*R*,5*S*)-4-carboxy-2,2-dimethyl-[1,3]dioxolan-5-ylmethoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;

1-phenyl-4-[1-(5-propoxy-1,2,3,4-tetrahydro-isoquinolin-8-yl)-methylidene]-pyrazolidine-3,5-dione and its formate salt;

4-[1-[2-(2,3-dihydroxy-propoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;

4-[1-[2-((2*S*)-2,3-dihydroxy-propoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;

4-[1-[2-((2*R*)-2,3-dihydroxy-propoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;

4-[1-[2-((2*S*,3*R*)-2,3-dihydroxy-3-ethoxycarbonyl-propoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;

4-[1-[2-((2*S*,3*R*)-3-carboxy-2,3-dihydroxy-propoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;

ethyl 4-(4-benzylidene-3,5-dioxo-pyrazolidin-1-yl)-benzoate;
ethyl 4-[4-(2-hydroxy-3-methoxy-benzylidene)-3,5-dioxo-pyrazolidin-1-yl]-
benzoate;
ethyl 4-[4-(2-methoxy-benzylidene)-3,5-dioxo-pyrazolidin-1-yl]-benzoate;
ethyl 4-[4-(3-methoxy-benzylidene)-3,5-dioxo-pyrazolidin-1-yl]-benzoate;
ethyl 4-(3,5-dioxo-4-pyridin-3-ylmethylene-pyrazolidin-1-yl)-benzoate;
ethyl 4-(3,5-dioxo-4-thiophen-3-ylmethylene-pyrazolidin-1-yl)-benzoate;
ethyl 4-[4-(2,3-dimethyl-4-propoxy-benzylidene)-3,5-dioxo-pyrazolidin-1-
yl]-benzoate;
4-(3-methyl-4-propoxy-benzylidene)-1-pyridin-2-yl-pyrazolidine-3,5-dione;
4-(2,3-dimethyl-4-propoxy-benzylidene)-1-pyridin-2-yl-pyrazolidine-3,5-
dione;
1-(4-bromo-phenyl)-4-(2,3-dimethyl-4-propoxy-benzylidene)-pyrazolidine-
3,5-dione;
4-(2,3-dimethyl-4-propoxy-benzylidene)-1-(4-methoxy-phenyl)-
pyrazolidine-3,5-dione;
4-[4-(2,3-dimethyl-4-propoxy-benzylidene)-3,5-dioxo-pyrazolidin-1-yl]-
benzonitrile;
4-(2,3-dimethyl-4-propoxy-benzylidene)-1-(4-fluoro-phenyl)-pyrazolidine-
3,5-dione;
4-(2,3-dimethyl-4-propoxy-benzylidene)-1-(4-methyl-phenyl)-pyrazolidine-
3,5-dione;
1-(2-chloro-phenyl)-4-(2,3-dimethyl-4-propoxy-benzylidene)-pyrazolidine-
3,5-dione;
4-(2,3-dimethyl-4-propoxy-benzylidene)-1-(2-methyl-phenyl)-pyrazolidine-
3,5-dione;
4-(2,3-dimethyl-4-propoxy-benzylidene)-pyrazolidine-3,5-dione;
4-(4-cyclopentyloxy-2,3-dimethyl-benzylidene)-pyrazolidine-3,5-dione;

4-(4-propoxy-5,6,7,8-tetrahydro-naphthalen-1-ylmethylene)-pyrazolidine-3,5-dione;

4-(2,3-dimethyl-4-pent-1-ynyl-benzylidene)-pyrazolidine-3,5-dione;

4-(2,3-dimethyl-4-pentyl-benzylidene)-pyrazolidine-3,5-dione;

4-(4-propoxy-naphthalen-1-ylmethylene)-pyrazolidine-3,5-dione;

4-(7-propoxy-indan-4-ylmethylene)-pyrazolidine-3,5-dione;

4-(2-methoxy-3-methyl-4-propoxy-benzylidene)-pyrazolidine-3,5-dione;

4-(3-methyl-2,4-dipropoxy-benzylidene)-pyrazolidine-3,5-dione;

4-(2,3-dimethyl-4-propoxy-benzylidene)-1-methyl-pyrazolidine-3,5-dione;

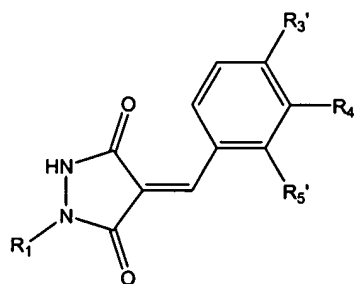
4-(2,3-dimethyl-4-propoxy-benzylidene)-1-pyridin-4-yl-pyrazolidine-3,5-

dione; and

1-acetyl-4-[1-(2,3-dimethyl-4-propoxy-phenyl)-methyldiene]-pyrazolidine-3,5-dione.

18. (Currently Amended) ~~Compounds~~ A compound selected from the group consisting of: the general

a pyrazolidinedione derivative of formula (III'),



(III')

~~including their geometric isomers thereof, [[and]] tautomers thereof, and mixtures thereof; as well as their salts, esters and prodrugs mentioned in claim 1, or a salt, ester or prodrug of said compound,~~

wherein

~~R₁ is as defined in any one of claims 1, 2 and 4 to 6~~ hydrogen, optionally substituted alkyl, cycloalkyl, aryl, arylalkyl, heteroaryl, heteroarylalkyl or alkanoyl;

R₃' is alkyl, alkenyl, alkynyl, alkoxy, hydroxyalkoxy, alkoxyalkoxy, alkenyloxy, cycloalkoxy, cycloalkylalkoxy or alkylsulfonyloxy;

R₄' is halogen, hydroxy, alkyl or alkoxy; and

R₅' is halogen, hydroxy, alkyl, alkoxy, alkoxyalkoxy, hydroxyalkoxy, dihydroxyalkoxy, alkanoyloxyalkoxy, carboxyalkoxy, carboxy-hydroxyalkoxy, carboxy-dihydroxyalkoxy, alkoxycarbonylalkoxy, alkoxycarbonyl-hydroxyalkoxy, alkoxycarbonyl-dihydroxyalkoxy, carbamoylalkoxy, *N*-alkylcarbamoylalkoxy, *N,N*-dialkylaminolalkoxy, morpholin-4-ylalkoxy, piperidin-1-ylalkoxy, morpholin-4-ylcarbonylalkoxy, 2,2-dialkyl[1,3]dioxolan-4-ylalkoxy or 2,2-dialkyl-4-carboxy[1,3]dioxolan-5-ylalkoxy; or

R₄' and R₅', together with the phenyl ring to which they are attached, form a fused, optionally substituted carbocyclic or heterocyclic ring system; with the proviso that if R₁ is phenyl and R₃' is methoxy, R₄' and R₅' may not both be methoxy.

19. (Currently amended) ~~compounds~~ The compound according to claim 18, wherein

R₁ is other than alkanoyl;

R₃' is alkyl, alkenyl, alkynyl, alkoxy, hydroxyalkoxy, alkoxyalkoxy, alkenyloxy, cycloalkoxy or cycloalkylalkoxy; and

R₄' and R₅', each independently of the other, are halogen, hydroxy, alkyl or alkoxy; or

R₄' and R₅', together with the phenyl ring to which they are attached, form a fused, optionally substituted carbocyclic or heterocyclic ring system.

20. (Currently amended) ~~Compounds~~ The compound according to claim 18,
[[or 19]]

wherein

R₃' is alkyl, alkenyl, alkynyl, alkoxy, cycloalkoxy, cycloalkylalkoxy, hydroxyalkoxy or alkoxyalkoxy,

R₄' is halogen, alkyl or alkoxy, and

R₅' is alkyl or alkoxy.

21. (Currently amended) ~~Compounds~~ The compound according to claim 20,
wherein

R₃' is methyl, ethyl, propyl, *iso*-propyl, butyl, *iso*-butyl, *tert*-butyl, pentyl, hexyl, but-1-enyl, pent-1-enyl, but-1-ynyl, pent-1-ynyl, methoxy, ethoxy, propoxy, butoxy, *iso*-butoxy, 3-methyl-butoxy, pentyloxy, cyclopentyloxy, hexyloxy, cyclopropylmethoxy, cyclobutylmethoxy, 2-hydroxy-ethoxy, 2-methoxy-ethoxy,

R₄' is chloro, bromo, methyl or methoxy, and

R₅' is methyl or methoxy.

22. (Currently amended) ~~Compounds~~ The compound according to claim 18,
[[or 19]]

wherein

R₃' is alkoxy₁ and

R₄' and R₅' together with the phenyl ring to which they are attached, form an optionally substituted naphthalene, tetrahydronaphthalene, indane, 1*H*-indene, isoquinoline, dihydro-benzo[1,4]dioxine or benzo[1,3]dioxole ring system.

23. (Currently amended) ~~Compounds~~ The compound according to claim 22, wherein R₃' is propoxy₁ and

R₄' and R₅' together with the phenyl ring to which they are attached, form a naphthalene-1-yl, indan-4-yl, isoquinolin-5-yl, isoquinolin-8-yl, 1,2,3,4-tetrahydroisoquinoli-8-yl, 2-alkoxycarbonyl-1,2,3,4-tetrahydroisoquinoli-8-yl or 5,6,7,8-tetrahydronaphthalen-1-yl moiety.

24. (Currently amended) ~~Compounds~~ The compound according to claim 18,
[[or 19]]

wherein

R₃' is methoxy, propoxy, cyclopentyloxy, pent-1-ynyl or ethanesulfonyloxy;

R₄' is methyl;

R₅' is hydroxy, methyl, pentyl, methoxy, propoxy, 2-methoxyethoxy, 2-hydroxyethoxy, 3-hydroxypropoxy, 4-hydroxybutoxy, 2,3-dihydroxypropoxy, 4-acetoxybutoxy, carboxymethoxy, 3-carboxypropoxy, 4-carboxybutoxy, 3-carboxy-2-hydroxypropoxy, 3-carboxy-2,3-dihydroxypropoxy, ethoxycarbonylmethoxy, 3-ethoxycarbonylpropoxy, 4-ethoxycarbonylbutoxy, 3-ethoxycarbonyl-2-hydroxypropoxy, 3-

ethoxycarbonyl-2,3-dihydroxypropoxy, carbamoylmethoxy 3-*N*-ethylcarbamoylpropoxy, 4-*N*-ethylcarbamoylbutoxy, 2-*N,N*-dimethylaminoethoxy, 3-*N,N*-dimethylaminopropoxy, 2-(morpholin-4-yl)-ethoxy, 2-(piperidin-1-yl)-ethoxy, 3-(morpholin-4-yl)-carbonylpropoxy, 4-(morpholin-4-yl)-carbonylbutoxy, 2,2-dimethyl[1,3]dioxolan-4-ylmethoxy or 2,2-dimethyl-4-carboxy[1,3]dioxolan-5-ylmethoxy; or

R₄' and R₅', together with the phenyl ring to which they are attached, form a naphthalen-1-yl, 5,6,7,8-tetrahydronaphthalen-1-yl, indan-4-yl, 1,2,3,4,-tetraisoquinolin-8-yl or 2-*tert*-butoxycarbonyl-1,2,3,4,-tetraisoquinolin-8-yl moiety.

25. (Original) A compound selected from
- 4-[1-[2-((2*S*)-3-carboxy-2-hydroxy-propoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;
 - 4-[1-[2-((2*R*)-3-carboxy-2-hydroxy-propoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;
 - 4-[1-[2-(3-carboxy-propoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;
 - 4-[1-[2-(4-carboxy-butyloxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;
 - 4-[1-[2-(2,3-dihydroxy-propoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;
 - 4-[1-[2-((2*S*)-2,3-dihydroxy-propoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;
 - 4-[1-[2-((2*R*)-2,3-dihydroxy-propoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;
 - 4-[1-[2-((2*S*,3*R*)-3-carboxy-2,3-dihydroxy-propoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;

4-[1-[2-(5-ethylamino-5-oxo-pentyloxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;
4-[1-[2-(3-hydroxy-propoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;
4-[1-[2-(4-hydroxy-butoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;
4-[1-[2-(2-hydroxy-ethoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;
4-[1-[2-((2*S*,3*R*)-2,3-dihydroxy-3-ethoxycarbonyl-propoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;
4-[1-[2-(ethoxycarbonyl-methoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione; and
4-[1-[3-methyl-2-(4-morpholin-4-yl-4-oxo-butoxy)-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione.

26. (Original) A compound selected from
1-phenyl-4-[1-(5-propoxy-isoquinolin-8-yl)-methylidene]-pyrazolidine-3,5-dione;
4-[1-[2-(4-ethylamino-4-oxo-butoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;
4-[1-[2-(4-ethoxycarbonyl-butoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;
4-[1-[2-((2*R*)-3-ethoxycarbonyl-2-hydroxy-propoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;
4-[1-[2-(4-acetoxy-butoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;
4-[1-[2-(3-ethoxycarbonyl-propoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;

4-[1-[2-(2-methoxy-ethoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;

4-[1-[3-methyl-2-(5-morpholin-4-yl-5-oxo-pentyloxy)-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;

1-phenyl-4-[1-(8-propoxy-isoquinolin-5-yl)-methylidene]-pyrazolidine-3,5-dione;

4-[1-[2-(2-amino-2-oxo-ethyloxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;

4-[1-[3-methyl-2-(2-morpholin-4-yl-ethoxy)-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione and its hydrochloride salt;

4-[1-[2-(2,2-dimethyl-[1,3]dioxolan-4-ylmethoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;

4-(2,3-dimethyl-4-propoxy-benzylidene)-1-phenyl-pyrazolidine-3,5-dione;

4-[1-[2-((4R,5S)-4-carboxy-2,2-dimethyl-[1,3]dioxolan-5-ylmethoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;

4-[1-[2-((4R)-2,2-dimethyl-[1,3]dioxolan-4-ylmethoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;

4-[1-[2-(3-dimethylamino-propoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione and its hydrochloride salt;

1-phenyl-4-[1-(7-propoxy-indan-4-yl)-methylidene]-pyrazolidine-3,5-dione;

1-phenyl-4-(4-propoxy-5,6,7,8-tetrahydro-naphthalen-1-ylmethylene)-pyrazolidine-3,5-dione;

1-phenyl-4-[1-(5-propoxy-1,2,3,4-tetrahydro-isoquinolin-8-yl)-methylidene]-pyrazolidine-3,5-dione and its formiate salt;

4-[1-[2-(2-dimethylamino-ethoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione and its hydrochloride salt;

4-[1-[2-(carboxy-methoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;

4-[1-[2-((4S)-2,2-dimethyl-[1,3]dioxolan-4-ylmethoxy)-3-methyl-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione;
4-(3-methyl-2,4-dipropoxy-benzylidene)-pyrazolidine-3,5-dione;
4-[1-(3-methyl-2,4-dipropoxy-phenyl)-methylidene]-1-phenyl-pyrazolidine-3,5-dione;
4-(4-propoxy-5,6,7,8-tetrahydro-naphthalen-1-ylmethylene)-pyrazolidine-3,5-dione;
4-[1-(2-methoxy-3-methyl-4-propoxy-phenyl)-methylidene]-1-phenyl-pyrazolidine-3,5-dione;
4-(2-methoxy-3-methyl-4-propoxy-benzylidene)-pyrazolidine-3,5-dione;
4-(7-propoxy-indan-4-ylmethylene)-pyrazolidine-3,5-dione;
4-[1-(2-*tert*-butoxycarbonyl-5-propoxy-1,2,3,4-tetrahydro-isoquinolin-8-yl)-methylidene]-1-phenyl-pyrazolidine-3,5-dione; and
4-(2,3-dimethyl-4-propoxy-benzylidene)-1-(4-fluoro-phenyl)-pyrazolidine-3,5-dione.

27. (Original) A compound selected from
1-phenyl-4-(4-propoxy-naphthalen-1-ylmethylene)-pyrazolidine-3,5-dione;
4-[1-[3-methyl-2-(2-piperidin-1-yl-ethoxy)-4-propoxy-phenyl]-methylidene]-1-phenyl-pyrazolidine-3,5-dione and its hydrochloride salt;
4-(2,4-dimethoxy-3-methyl-benzylidene)-1-phenyl-pyrazolidine-3,5-dione;
4-(2,3-dimethyl-4-ethanesulfonyloxy-benzylidene)-1-phenyl-pyrazolidine-3,5-dione;
4-(2,3-dimethyl-4-propoxy-benzylidene)-1-pyridin-2-yl-pyrazolidine-3,5-dione;
4-(2,3-dimethyl-4-propoxy-benzylidene)-pyrazolidine-3,5-dione;
4-(2,3-dimethyl-4-methoxybenzylidene)-1-phenyl-pyrazolidine-3,5-dione;
4-(2,3-dimethyl-4-pent-1-ynyl-benzylidene)-1-phenyl-pyrazolidine-3,5-dione;

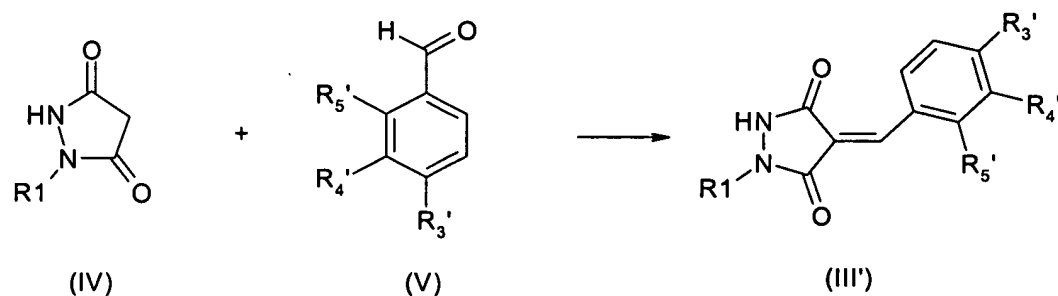
4-(4-propoxy-naphthalen-1-ylmethylene)-pyrazolidine-3,5-dione;
4-[4-(2,3-dimethyl-4-propoxy-benzylidene)-3,5-dioxo-pyrazolidin-1-yl]-benzonitrile;
4-[1-(2-hydroxy-3-methyl-4-propoxy-phenyl)-methylidene]-1-phenyl-pyrazolidine-3,5-dione;
4-(2,3-dimethyl-4-pentyl-benzylidene)-1-phenyl-pyrazolidine-3,5-dione;
4-(2,3-dimethyl-4-pentyl-benzylidene)-pyrazolidine-3,5-dione;
1-(2-chloro-phenyl)-4-(2,3-dimethyl-4-propoxy-benzylidene)-pyrazolidine-3,5-dione;
4-(2,3-dimethyl-4-pent-1-ynyl-benzylidene)-pyrazolidine-3,5-dione;
4-(2,3-dimethyl-4-propoxy-benzylidene)-1-pyridin-4-yl-pyrazolidine-3,5-dione;
4-(2,3-dimethyl-4-propoxy-benzylidene)-1-(4-methyl-phenyl)-pyrazolidine-3,5-dione;
4-(4-cyclopentyloxy-2,3-dimethyl-benzylidene)-pyrazolidine-3,5-dione;
4-(4-cyclopentyloxy-2,3-dimethyl-benzylidene)-1-phenyl-pyrazolidine-3,5-dione;
4-(2,3-dimethyl-4-propoxy-benzylidene)-1-(4-methoxy-phenyl)-pyrazolidine-3,5-dione;
1-(4-bromo-phenyl)-4-(2,3-dimethyl-4-propoxy-benzylidene)-pyrazolidine-3,5-dione;
4-(2,3-dimethyl-4-propoxy-benzylidene)-1-(2-methyl-phenyl)-pyrazolidine-3,5-dione;
4-(2,3-dimethyl-4-propoxy-benzylidene)-1-methyl-pyrazolidine-3,5-dione;
ethyl 4-[4-(2,3-dimethyl-4-propoxy-benzylidene)-3,5-dioxo-pyrazolidin-1-yl]-benzoate; and
1-acetyl-4-[1-(2,3-dimethyl-4-propoxy-phenyl)-methylidene]-pyrazolidine-3,5-dione.

28. (Cancelled).

29. (Currently amended) A pharmaceutical composition ~~containing a~~ comprising the compound according to ~~any one of claims 18 to 27~~ claim 18 and a pharmaceutically inert carrier.

30. (Currently amended) ~~The use according to claim 1 or 3 of compounds A~~ method for preventing or treating a disease or a condition associated with platelet aggregation, said method comprising administering to a mammal in need thereof the compound according to any one of claims 18 to 23 claim 18.

31. (Currently amended) A process for the manufacture of ~~compounds~~ the compound according to ~~any one of claims 18 to 27~~ which comprises claim 18, comprising condensing a pyrazolidinedione of the general formula (IV), as shown in the following reaction scheme wherein R₁, R_{3'}, R_{4'} and R_{5'} are as defined in claim 18,



with an aldehyde of the above general formula (V), any reactive group which may be present in the compounds of formulae IV and V being appropriately protected, and, if necessary, splitting off from the condensation product any protecting group(s) ~~which may be undesired~~.

32. (Currently amended) [[A]] The process of claim 31, wherein the pyrazolidinedione of the general formula (IV) as indicated in claim 31, is selected from the group consisting of:

1-pyridin-2-yl-pyrazolidine-3,5-dione;

4-(3,5-dioxo-pyrazolidin-1-yl)-benzonitrile; and
1-pyridin-4-yl-pyrazolidine-3,5-dione.

33. (Currently amended) [[An]] The process of claim 31, wherein the aldehyde of the general formula (V) as indicated in claim 34 is selected from the group consisting of:

4-cyclopentyloxy-2,3-dimethyl-benzaldehyde;
4-propoxy-5,6,7,8-tetrahydro-naphthalene-1-carbaldehyde;
2,3-dimethyl-4-pent-1-ynyl-benzaldehyde;
2,3-dimethyl-4-pentyl-benzaldehyde;
7-propoxy-indan-4-carbaldehyde;
5-propoxy-isoquinoline-8-carbaldehyde;
8-propoxy-isoquinoline-5-carbaldehyde;
2-*tert*-butyloxycarbonyl-8-formyl-5-propoxy-1,2,3,4-tetrahydroisoquinoline;
2,3-dimethyl-4-ethanesulfonyloxybenzaldehyde;
2-hydroxy-3-methyl-4-propoxy-benzaldehyde;
2-methoxy-3-methyl-4-propoxy-benzaldehyde;
2-(2-methoxy-ethoxy)-3-methyl-4-propoxy-benzaldehyde;
2-(2-hydroxy-ethoxy)-3-methyl-4-propoxy-benzaldehyde;
2-(3-hydroxy-propoxy)-3-methyl-4-propoxy-benzaldehyde;
2-(4-acetoxy-butoxy)-3-methyl-4-propoxy-benzaldehyde;
2-(4-hydroxy-butoxy)-3-methyl-4-propoxy-benzaldehyde;
ethyl (6-formyl-2-methyl-3-propoxy-phenoxy)-acetate;
(6-formyl-2-methyl-3-propoxy-phenoxy)-acetic acid;
2-(6-formyl-2-methyl-3-propoxy-phenoxy)-acetamide;
ethyl 4-(6-formyl-2-methyl-3-propoxy-phenoxy)-butanoate;
4-(6-formyl-2-methyl-3-propoxy-phenoxy)-butanoic acid;
4-(6-formyl-2-methyl-3-propoxy-phenoxy)-butanoic acid ethylamide;
3-methyl-2-(4-morpholin-4-yl-4-oxo-butoxy)-4-propoxy-benzaldehyde;

ethyl 5-(6-formyl-2-methyl-3-propoxy-phenoxy)-pentanoate;
5-(6-formyl-2-methyl-3-propoxy-phenoxy)-pentanoic acid;
5-(6-formyl-2-methyl-3-propoxy-phenoxy)-pentanoic acid ethylamide;
3-methyl-2-(5-morpholin-4-yl-5-oxo-pentyloxy)-4-propoxy-benzaldehyde;
2-(2-dimethylamino-ethoxy)-3-methyl-4-propoxy-benzaldehyde and its
hydrochloride salt;
3-methyl-2-(2-morpholin-4-yl-ethoxy)-4-propoxy-benzaldehyde and its
hydrochloride salt;
3-methyl-2-(2-piperidin-1-yl-ethoxy)-4-propoxy-benzaldehyde and its
hydrochloride salt;
2-(3-dimethylamino-propoxy)-3-methyl-4-propoxy-benzaldehyde and its
hydrochloride salt;
2-(2,2-dimethyl-[1,3]dioxolan-4-ylmethoxy)-3-methyl-4-propoxy-
benzaldehyde;
2-((4*R*)-2,2-dimethyl-[1,3]dioxolan-4-ylmethoxy)-3-methyl-4-propoxy-
benzaldehyde;
2-((4*S*)-2,2-dimethyl-[1,3]dioxolan-4-ylmethoxy)-3-methyl-4-propoxy-
benzaldehyde;
ethyl (3*R*)-4-(6-formyl-2-methyl-3-propoxy-phenoxy)-3-hydroxy-butanoate;
(3*R*)-4-(6-formyl-2-methyl-3-propoxy-phenoxy)-3-hydroxy-butanoic acid;
ethyl (3*S*)-4-(6-formyl-2-methyl-3-propoxy-phenoxy)-3-hydroxy-butanoate;
(3*S*)-4-(6-formyl-2-methyl-3-propoxy-phenoxy)-3-hydroxy-butanoic acid;
methyl (4*R*,5*S*)-5-(6-formyl-2-methyl-3-propoxy-phenoxy)methyl)-2,2-
dimethyl-[1,3]dioxolane-4-carboxylate;
(4*R*,5*S*)-5-(6-formyl-2-methyl-3-propoxy-phenoxy)methyl)-2,2-dimethyl-
[1,3]dioxolane-4-carboxylic acid.